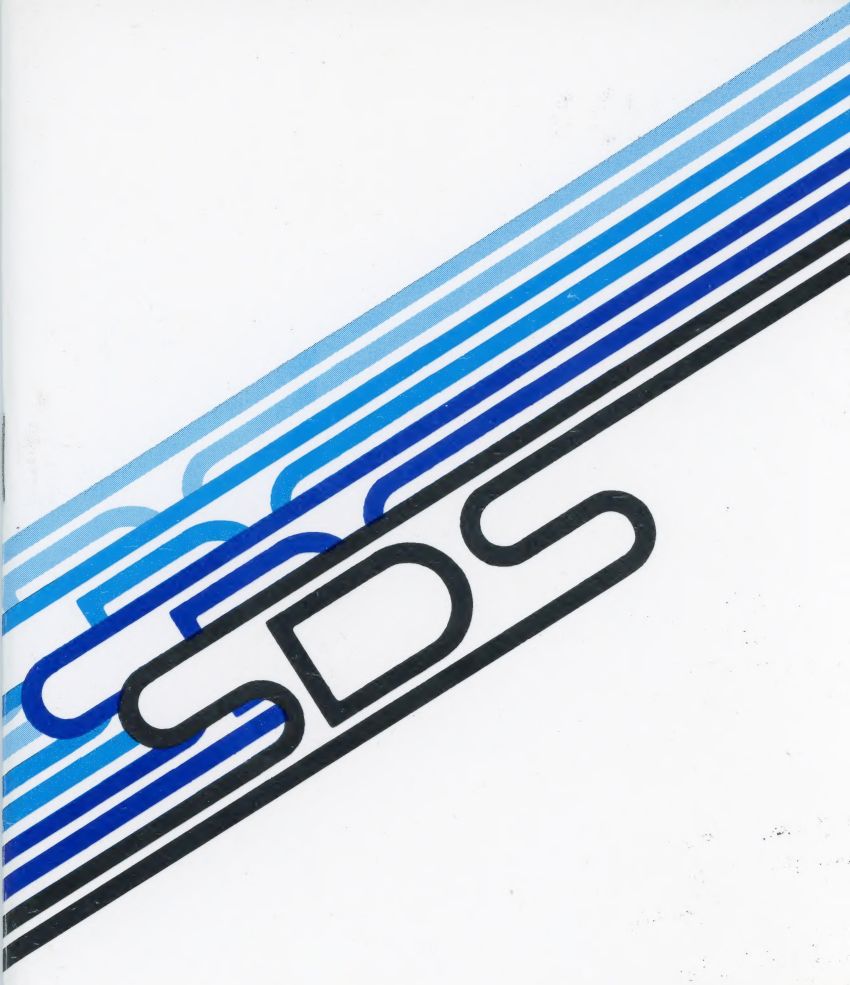

product guide

southwestern data systems

southwestern data systems

southwestern data systems

Powerful & Efficient Apple Software

WE GUARANTEE IT!

Valued Customer:

Southwestern Data Systems has been a pioneer in innovative software for the Apple II since its inception in the late 1970's. From the start, we established a money back guarantee as evidence of our dedication to supplying only the finest products available. Software of such uncompromising quality became the cornerstone for our success and is the reason for our recognition as an industry leader today. Even our unique style of attractive, individually shrink-wrapped packages reflect this concern for overall product quality.

S.D.S. specializes in innovative support for the Apple II owner with trend setting ideas such as The Courier, a dealer-oriented software demonstration package; a legitimate program protection scheme which allows for back-up copies for the original buyer while effectively eliminating piracy; Executive Library Cases for convenient desk top diskette storage, and much more.

In addition, S.D.S. offers a truly professional support staff capable of answering your questions and encouraging your suggestions. S.D.S. also keeps in touch with program revisions and updates. Ultimately, S.D.S. combines quality and reliability in both product and support.

Roger Wagner

President, S.D.S.

Product Guide
for

SOUTHWESTERN DATA SYSTEMS

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SOFTWARE

APPLE-DOC

by Roger Wagner

An aid to the development and documentation of Applesoft programs.

Apple-Doc is one of the most powerful programming utilities you can own. Whether you're a professional programmer, or just have an occasional listing to modify, you'll find Apple-Doc more than pays for itself in time savings.

Apple-Doc not only provides valuable information on each of your programs, but allows you to change any element throughout the listing almost as easily as you would change a single line!

Here are the basic utilities included in Apple-Doc:

XREF:

A cross-reference utility with three distinct operations.

The first is a Variable Cross-Referencer. This creates a table of every variable used in a program and a list of every line the variable is used on. The list can be done on all of the program or just a given line range. Once the list is created, your own descriptors of what each variable does can then be entered, and stored in a separate disk file. This means that working on the program after a long period of inactivity no longer be a frustrating and time consuming process. In addition, the need for internal REM statements is eliminated by the ability to store the descriptors in a disk file.

Next, a Line Number Cross-Reference option creates a similar table of every line in the program called by a GOTO, GOSUB, etc. and all the lines each is called from. References to lines not present in the program are specially flagged to attract your attention.

The Constant Cross-Reference creates a table of all the numbers used in a program (not including those listed by the Line Number Cross-Reference function). This is very helpful in business, scientific, or statistical programs where a large number of constants are being used.

Printed output of the created tables can be automatically formatted to provide left, top and bottom margins, and perforation-skip, even if your printer does not normally support this!

All three programs can be used at any time without the need to turn your program into a textfile. It is assumed your program is already in memory, at which point you would type in: EXEC XREF. The program will do its job, and then return you to your original program as you left it. You can also put XREF on 'HOLD' to make the utilities co-resident if you wish. Routines can be run in as little as 2K remaining memory space, so no program will be too large to document.

For a typical program, it only takes 30 seconds to create the Cross-Reference table. This means that it's always simple to get the list for the program you're working on.

REPLACE

This is a powerful replacement editor which works in a manner similar to XREF. Your program is already in memory when REPLACE is EXECed to run it. You can easily rename any or all occurences of any variable in your programs. It will, in fact, replace any set of characters or BASIC statements with any other set, making it indispensible when customizing programs.

Before each replacement, the program line can be displayed with the item to be replaced shown in inverse. On all replacements you have the option of either a global or local search and replace, with or without prompting.

As with XREF, REPLACE can be made co-resident if doing a large amount of editing, or when working with a number of different programs.

LISTER

Creates the most professional listing of a program possible. Top, left and bottom margins can be defined, (again, even if your printer doesn't usually do this!) Puts the name of the program and date in an attractive banner. Lister can also be made co-resident if you intend to print listings on a number of programs.

APPLE-DOC's many uses include:

- Custom software consultants provide thorough and well documented listings using the entire Apple-Doc package.
- Neater listings and variable lists make program development a pleasure, rather than a memory test of the programmer.
- Businesses customizing software for their own use quickly find and edit variables and subroutines using REPLACE.
- Find typographical error caused "bugs" resulting from incorrect variables, constants, or line numbers not actually in the listing.
- Check for variable name compatability/conflict problems when merging subroutines or checking programs.

SYSTEM REQUIREMENTS: 48K Apple with DOS 3.3, Applesoft in ROM or Language Card.

Applesoft Command Editor

by

Jeff Baron & Roger Clayton

A.C.E. combines a large number of the most useful programming utilities into one convenient package. You'll find that many things you wished you could do, or that were previously an involved operation, are now unbelievably easy.

This is a co-resident operating system that enhances the immediate mode capabilities of Applesoft*. Co-resident means that these routines effectively become part of your APPLE II*, and that the various commands and utilities are immediately available WHILE entering or modifying existing program lines. With A.C.E. installed your program development time will be greatly reduced and more fun!

FEATURES

A.C.E. provides the following enhancements:

- Line editor lets you easily edit program lines: insert or delete right in the line, jump to any point, change only what is needed, then "accept" the line without having to copy over the remainder!
- Instantly determines whether a variable is present in the program in memory, and on which lines it occurs.
- Display values of all non-array variables at any time — excellent for debugging programs. Being able to see the order in which the variables were assigned also means you can speed up programs using large numbers of variables.
- Easily convert decimal and hex values back and forth right from the keyboard.
- Auto line numbering (as in Integer).
- User defined keyboard macros allow you to define keywords, variables or other strings as a single control character. Best of all, definitions can be entered at any time. This means you do not have to run a separate editor program, and that keys can be re-defined "on the fly" as is appropriate to what you're doing at that moment.
- Any Monitor command can be executed directly from Applesoft, so you'll never have to enter the Monitor again to look at bits of code, or alter specific locations. This feature alone will save you hours when linking machine code routines to Applesoft programs.
- 'B' command displays last BLOAD address and length.
- 'F' command gives free space on current diskette in drive.
- 'M' command gives current memory status: LOMEM:, HIMEM:, FRE(0).
- 'D' gives an ASCII and Hex dump of memory contents starting at a location, allowing you to easily view memory for specific strings, values, etc.

SYSTEM REQUIREMENTS: 48K Apple II, disk w/FP ROM or Language Card.

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*Apple II and Applesoft are both trademarks of Apple Computer, Inc.

List Master

by Ted Birckhead and Roger Wagner

An excellent companion to APPLE-DOC, LIST-MASTER provides a number of utilities for performing large scale changes to your program listings in a high-speed and automatic way. This means a tremendous savings in program development time, and helps assure logical and usable listings at all stages of your program's development. It also means you can produce a final version which operates in the minimum of space and at an optimum speed.

APPLESPEED takes any Applesoft program and optionally removes REMarks, shortens variable names, combines lines, and renumbers by 1's. Each of these steps can considerably reduce the length of a program, and altogether the reduction can be as much as 25-50%. Speed of operation typically increases as well. Each option can be individually selected or combined to make just the alterations you desire.

The SMART RENUMBER program is the finest in renumber utilities. Not only does it do the usual job of renumbering, but also gives you options not found in any other package. SMART RENUMBER gives you the option of preserving the logical blocks of line numbers that you establish for the various routines in a program. This means that the renumbered version will still retain the logic and workability of the original. If you've ever tried to work on a program after you've blindly renumbered the entire thing by 10's, you'll appreciate this feature! Also included are merge routines that allow you to quote blocks of lines from one part of your program to another — with automatic renumbering of appropriate line references!

COMP-LIST will compare any two Applesoft or Integer programs and list out any lines added, deleted, or changed. This is often handy after you have re-numbered or otherwise changed a program and you wish to list out just the changes.

SYSTEM REQUIREMENTS: 48K Apple with DOS 3.3, Applesoft in ROM or Language Card.

The Applesoft* Compiler from the Apple II* Utility Specialists

Speed Star* is a full-function Applesoft compiler designed to quickly and easily convert your programs to fast and efficient 6502 machine language. This means a dramatic increase in the operating speed of your programs. And here's the best part — with Speed Star, it's all done automatically — no knowledge of assembly or machine language is necessary. Speed Star offers full support for DOS commands, Error Messages, Hi-Res and Lo-Res Graphics and much more, and its easy to use manual makes compiling a breeze.

Speed Star is extremely fast. Because it does not normally access the disk during compilation, it will compile approximately 1200 lines per minute! This is many times faster than most other Apple compilers. But pure speed is not the only significant advantage of Speed Star. Use it to protect your algorithms from theft or unauthorized modification.

Because Speed Star converts Applesoft programs to binary files, you can have any number of programs in memory at once, and the special "Compile to Disk" mode allows compilation of programs normally too large to be done in memory. Also contained in this truly dynamic package is a unique selective chaining option which allows you to pass just the variables you want to any or all subsequent programs. Speed Star is also the **ONLY** compiler that allows you to pass variables directly from an Applesoft program to a compiled program. This means you can use the compiled modules as subroutines from standard Applesoft programs.

Speed Star uses the following single Keystroke commands:

A)ddress	Begins compilation and operation of decimal
C)tri-C	Activates control-C stop
D)isk	Compiles to disk for greater memory
I)ndices	Initiates subscript check
L)ist	Lists program as it compiles
N)umber	References line numbers in BASIC program
O)rigin loc	Compiles in one location to be run in another
S)ubroutine	Insures correct set-up during compilation for machine language subroutines.
T)race	Activates TRACE - NOTRACE function

Another important feature of Speed Star is Southwestern Data Systems' latest innovation — the SDS DataKey*, a hardware key that plugs into your game paddle port in seconds without effecting normal paddle operation. The SDS DataKey allows the original Speed Star owner an unlimited number of backup copies while eliminating unauthorized software proliferation. With the SDS DataKey, the Speed Star diskette may be copied simply by using any standard copy program.

SYSTEM REQUIREMENTS: 48K Apple II with applesoft in ROM or equivalent.

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*Apple II and Applesoft BASIC are trademarks of Apple Computer Inc.
*Speed Star and DataKey are trademarks of Southwestern Data Systems.

This is an extremely versatile program. It is designed primarily for writing letters and other documents, but with so many supporting utilities and possible uses, it will be one of your most used diskettes.

The editor is written to function in a very visual way. The Apple screen acts like a "window" onto a 40-80 column page. Four-way scrolling lets you see any part of the page just as it will be printed. In addition, a special 'reading' mode compresses text into a 40-column format for proof-reading of your copy. This gives the best of both worlds — easy reading for editing, yet, few, if any, "test printings" to get the appearance right.

Program supports full upper/lower case, including characters not normally available on the Apple keyboard. Any ASCII characters can be put right in the text, so using it with your printer is easy.

Expected conveniences include character insert/delete, line insert/delete, paragraph move/copy/delete, and forward & reverse tabbing. Text can be centered with a single keystroke, there are even math functions! Files can be linked to print out several files in the same run — useful for when documents are larger than that which can be directly held in memory.

Split screen capabilities allow you to view one part of the text while editing another. You can also save your own note pages of needed references, all accessable while entering text.

A global find routine can even search one or more entire diskettes making it useful as a free form database for fast access to phone lists, magazine titles, etc. At S.D.S. we use it to replace all the scraps of paper that accumulate as "important notes". With all the information in a single file, it's easy to recall even the slightest bit of information in just moments.

An especially powerful use of The Correspondent is for filling out forms that must be done often. Using this program you jump directly from entry to entry, with no manual adjustments in between needed. When the form is completed, print out as many copies as you like.

An additional program included is the LETTER CARRIER which allows you to send files using The Correspondent's two-way scrolling in letters to other Apple owners using the diskette itself as the media. In fact you can put the two-way scrolling in any of your own programs with only a minimum of additional programming.

As a programming utility The Correspondent is useful for accessing text files. You can easily see the data in a text file, and use the editing features to make small changes. It will even view VISICALC* files, so you can check not only data, but the original formulas that make up the model.

Reviewed in PEELINGS MAGAZINE, Vol. 1, No. 4, The Correspondent was rated the best program value, in terms of performance vs. price of ANY similar program.*

SYSTEM REQUIREMENTS: 48K Apple with DOS 3.3, with Applesoft in ROM or Language Card. Lower case display board recommended, but not required.

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*VISICALC is a trademark of Personal Software, Inc.

*Programs reviewed were Correspondent, Scribe, Magic Window, Apple Writer, PIE, Easy Writer, and Super-Text.

ASCII EXPRESS II

by Bill Blue

The ASCII EXPRESS is the most complete, **intelligent** terminal package for the Apple II.* It is fully compatable with the Hayes Micromodem II* and the Apple Communications Card. It fully supports upper/lower case text both from the Apple II keyboard as well as its display.

With this package your Apple can talk to just about anything that has dial up access, from another **Apple II** to mainframe systems! It features file oriented upload/download facilities, a built in line ditor with full editing functions as well as support for your printer and keyboard **macros** in the terminal routine.

Also included are support programs to help you convert Apple II programs, (Applesoft, Integer and binary) to their file form. Fast machine language "crunching" is used to compress program files to their minimum size to save online time.

• FEATURES •

- Auto dial and answer capabilities when used with the Hayes Micromodem II.
- Full upper/lower case text, keyboard and display!
- Programmable keyboard **macros** reduce complicated log-in procedures to a few simple keystrokes. A must for optimal use of online time.
- Files can be transferred to or from **any** type of system, personal or mainframe.
- Special Copy Mode records anything displayed on the screen into your user file.
- Can accommodate approximately 20K of data in memory. Stores and retrieves files from disk.

• LINE EDITOR •

- Full upper/lower case, 10 to 250 columns, visible control characters.
- Insert and Delete functions for blocks of data within file.
- Individual line editing: replace, insert, delete, append to beginning or end of lines, auto centering.
- Disk file handling allows load/save of new file or appending data onto existing files either in memory or on disk.

Unlike other communication programs which have a couple of good ideas here and there, but in general are awkward to use, the ASCII EXPRESS II is so versatile and complete, you won't need to use any other program for online communications.

Here is a brief description of some of its powerful features:

Receive anything that appears on your screen and store it in the system buffer. You don't have to save it to disk. Once in the buffer, you can save it, print it, just look at it, modify it with the versatile line editor or call another computer and send it, or any of the above combinations!

Two modes of receive: formal and conversive. The formal mode allows you to download previously prepared data with no extra "garbage" at the beginning or end of the file to edit out because you couldn't turn the copy buffer off in time. The conversive mode allows you to copy all correspondence between your keyboard and the host computer and save it in your local buffer.

Send data in three formats to accommodate **any** kind of host system. 1) Block dump, where the entire buffer is output as a block. 2) Block dump with handshaking. Sends a line at a time and waits for acknowledgement from host. 3) Character at a time for hosts with very slow input routines, one character is sent, wait for its echo and send another, etc.

300/110 baud, and **all** word length/parity/stop bits combinations are fully supported.

Full or half duplex operation supported.

Fully compatable with either the D.C. Hayes Micromodem (tm), the Apple (tm) communications card or similarly structured I/O devices, with the understanding of course, that dialing and auto-answer routines provided in the program are supported only with the Micromodem.

Full **printer** support either in **terminal** mode, display buffer mode, or from within the editor.

Software is fully upper/lower case compatable.

Keyboard **macros.** Allows you to easily define (and change) up to 12 strings of data, which can be output to the host computer with dual keystrokes. Log-in sequences can be predefined and kept on file, and sent with very few keystrokes. No need to remember complex log-in sequences or codes. Type them in once and forget about them! Also includes cross-reference table of **macros** to numbers on file.

Terminal mode produces 126 ASCII characters — upper/lower case and others normally not available on the Apple keyboard.

Numbers file section. Lets you keep 18 of your most often called systems, their phone numbers for auto-dialing and a **macro** file cross-reference table for semi-automatic log-ins! Now all you have to do is tell your computer which file to dial, and not only will the system represented in that file be called, but the appropriate **macro** file will be loaded as well. The result? **Fast, efficient** calls and log-ins!

Versatile line-oriented text editor, allows you full control over data you have just received or are about to send. Or use as a text editor for other projects! Fully compatable with Apple DOS sequential text files, can read, write, append to file, append to buffer, add lines, delete lines, insert lines, retype lines and edit!

Also included in the package are support programs to allow you to create text files from Applesoft or Integer programs. A **fast** machine language file-compress program that squeezes program files to their minimum form for both saving disk space and reducing transfer time. Typically a 25% savings in both! Also included is a program to convert a block of **binary** data to text file for merging with program files, or sending by themselves.

SYSTEM REQUIREMENTS: 48K Apple II, disk w/ FP ROM or Language Card. Lower case display board recommended.

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*Apple II is a registered trademark of Apple Computer Co.
*Micromodem II is a registered trademark of Hayes Microcomputer Products, Inc.

Z-TERM

by Bill Blue

Z-TERM, a sophisticated full-feature terminal package for the CP/M Apple, for use with the Microsoft Z-80 Softcard. The 16K RAM cards or Apple Language card are not required, but are very useful to increase the internal buffer size.

It fully supports the Hayes Micromodem, Apple Communications card, SSM-AIO board, CCS Asynchronous Serial card and others! Also supports the Local Apple 40 column screen, M&R Superterm, Videx and Apple Smartterm 80 column boards or external terminal, all interchangeably and with NO re-configuration necessary!

• FEATURES •

- Fully compatable with standard CP/M sequential text files, can send files from disk of ANY size, and can receive up to 42K of data at a time!
- Accommodates four modes of transmission, including variable speed data flow, variable delay after c/r, and adjustable handshake and character flow modes.
- Fully supports lower case in all modes (with or without 80 column board provided a lower case display board is installed for the 40 column mode) with the local Apple keyboard (shift-key wiring ready).
- Completely table driven prefix keys allow you to produce any character not already on the Apple keyboard without losing any other keys! You can customize it to suit your specific requirements. Even the keyboard itself is table driven. You can even reassign actual key positions!
- Allows you to display normally invisible characters (i.e. control) for host output analysis while in terminal mode, or while reading from disk file!
- Full file-driven keyboard MACROS allow you to define strings for output with simple keystrokes for fast log-ins to host systems, or to issue various commands from within the system. The MACRO file also contains cross-reference to host phone numbers for auto-dialing with the Hayes Micromodem.
- Auto-disk-relogging takes care of unnecessary BDOS SELECT errors. You can read files or disk directories from within the program, or even exit, ERAse or RENname files to suit, and reenter the program with all data intact!
- Fully supports COPY to buffer, printer (with or without COPY on), keeps track of free buffer space and if the AUTO-SAVE mode is selected will send XOFF character to host, save file (with operator prompting) and then continue the COPY.
- COPY, MACRO select, PRINTER and all other menu commands can be quickly accessed while in terminal mode. No need to ever lose data because you couldn't change program status quickly enough. STATUS report mode too, so you can examine the current program setup.
- TERMINAL EMULATION allows your 80 column system to emulate the terminal of your choice or, if you are already using a terminal, allows it to emulate that of a different type!

Z-TERM COMMAND SUMMARY

(available at main menu or from within terminal mode)

!	Display program status
B	Baud rate select
D	Dial or connect (MM)
F	Free buffer space
I	Disk directory
L	Log new disk
N	Set delay after c/r
P	Printer on/off
S	Send file to host
V	View current buffer
X	Exit to CP/M
A	Show control chars.
C	Clear current buffer
E	Echo (duplex full/half)
H	Hang up (MM)
J	Read disk file to screen
M	Macro group select
O	Auto-save on/off
R	Copy buffer on/off
T	Transpose Backspace/Rubout
W	Write buffer to disk
Z	80 column screen wrap

This software may revolutionize the standard of terminal software for the Apple system. Written entirely in 8080 assembly code, it's very fast and completely adjustable to fit your requirements.

Z-TERM™

"THE PROFESSIONAL"

Z-Term "The Professional" is the ultimate terminal package for the CP/M Apple equipped with the Microsoft Z-80 Softcard. This is not just an updated version of the original Z-Term, which remains a truly sophisticated piece of software for the personal user. Complete and detailed in every respect, "The Professional" is destined to be the hallmark of Apple communication software. Written entirely in 8080 assembly code, it is extremely fast and easy to use. Z-Term "The Professional" not only supports all of the standard Z-Term commands, but also offers a significant number of exclusive features not present in any other terminal package.

"THE PROFESSIONAL" SPECIAL FEATURES

Auto-answer and unattended transfer operation with full support for the Hayes Micromodem, Apple CAT, or Micro-Peripherals modem. With this new mode you may call "The Professional" and send or receive all types of files.

The new CHRISTENSEN and PAN transfer protocols are fully supported. This means that "The Professional" is fully conversive with itself, MODEM, AMP-MODEM, LMODEM, and XMODEM in the CP/M world, as well as sending and receiving PCnet PAN mail in the PAN mode. In the CHRISTENSEN mode, ANY type of file can be transferred, including COM files with complete checksum and CRC error checking. The result is absolute integrity of all types of files!

Fully compatible with 1200 baud operation when interfaced with a 1200 baud interface card and Bell 212 or Vadic standard modem.

Special buffer for slower printers. "The Professional" includes a 255 byte ring buffer designed to eliminate the problem of printers equipped with a parallel card losing characters at the end of each line when conversing with a typical host at 300 baud. It "buffers" the feed to the printer allowing the printer to take characters as it can, and when it cannot, they are buffered for later output. The result is a perfect print copy with NO CHARACTER LOSS ON ANY HOST!

An interactive CHAT mode which allows two operators to converse with each other in real time on the screen. This greatly simplifies transfer of files and programs in the attended mode.

Fully supports the new Novation Apple CAT modem. With this modem you can use Touchtone dialing, automatic dialtone detection, reverse Touchtone number recognition and more. "The Professional" even allows mixed Touchtone pulse dialing if desired.

Apple CAT voice mode allows "The Professional" and the Apple CAT to act like a telephone; place Touchtone calls, converse with a standard telephone receiver plugged into the modem. Additionally, incoming calls may be answered with this mode. Switching from voice to modem is easily affected for the transfer of programs or files.

Expanded Macro section allows selection of different Macro files at run time. Also available is Macro review, a summary of the systems represented in any given Macro file.

Show-Control-Character-Diagnostic mode includes display of parity, framing and overrun errors.

Disk-Directory command includes disk free space for each access.

SYSTEMS COMPATIBILITY CHART

Screen Modes: Apple 40 Column screen
All 80 column boards, including emulation modes
External terminals, including emulation modes

Peripheral Cards: Apple Communications card
CCS Asnchronous Serial card 7710A
Emtrol Systems LYNX telephone linkage system
Hayes Associates Micromodem
Microperipheral Corporation MicroConnection
Mountain Hardware CPS card
Novation Apple CAT
SSM AIO board

Another important feature of Z-Term "The Professional" is the SDS DataKey, a hardware key that plugs into your game paddle port in seconds without effecting normal paddle operation. The SDS DataKey allows the original Z-Term "The Professional" owner an unlimited number of backup copies while eliminating unauthorized software proliferation. With the SDS DataKey, the diskette may be copied using any standard copy program.

STANDARD Z-TERM FEATURES

Compatible with standard CP/M sequential text files
Sends files of ANY size from disk
Receives files of up to 42K of data at a time
Four modes of transmission:
  Variable speed data flow
  Variable delay after c/r
  Adjustable handshake
  Adjustable character flow
Supports upper/lower case in all modes (if LC board is installed)
Sends characters normally not available from Apple keyboard

Reassign actual key positions
Displays invisible control characters for host output analysis
File-driven keyboard MACROS define strings with single keystroke
Cross reference to host phone numbers for auto-dial w/Micromodem
Auto-disk-relogging eliminates BDOS SELECT errors
Read files or disk directories from within the program
Exit, ERAse or REName files, reenter program with all data intact
Fully supports COPY to buffer, or printer (w or w/o COPY on)
Tracks free buffer space
AUTO-SAVE sends XOFF to host, save file w/prompting, resumes COPY
Terminal Mode access to COPY, MACRO, PRINTER, & all new menu commands
STATUS report examines current program setup
Allows your 80 column system to EMULATE ANY TERMINAL

SYSTEM REQUIREMENTS: 48K Apple II and Microsoft Z-80 Softcard

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Z-Term, Z-Term "The Professional" and DataKey are trademarks of Southwestern Data Systems
Apple II is a trademark of Apple Computer Inc.
Micromodem is a trademark of Hayes Microcomputer Products Inc.
Z-80 Softcard is a trademark of Microsoft
CP/M is a trademark of Digital Research

by Bill Blue

A very new concept in dial-up software for the Apple II* computer!

Have you ever wanted to be able to call your computer while you're away from home? Or, let your computer take messages for you or your friends in the form of a completely private message system? And all of this with complete security against unauthorized access by users you don't know, or don't want using your equipment!

ONLINE, an extraordinary new software package from Southwestern Data Systems can do all that plus much much more!

ONLINE requires a 48K Apple II plus computer equipped with the Hayes Micromodem* and at least one disk drive. The Mountain Hardware or California Computer Systems clock card may also be supported for automatic time and date posting of calls and messages.

Up to 50 user accounts which require an account number and a password for log-in may be set up by the system operator. A guest account may also be set up if desired. Its purpose would be to allow new or first time users a way to log-in to the system before a standard account has been assigned. Each account can be assigned different priority levels which ultimately determine which features or areas of the system may be accessed by that account. A complete caller logfile is maintained so you can quickly see who has called and when. This makes it ideal for club and multi-user use.

ONLINE supports very efficient mail handling between user accounts. Mail can be read only by the account holder to which it is sent and also supports auto-reply, read again, and delete modes. The messages can be up to 60 lines of 78 characters per line in the standard mail mode, or up to 800 lines in any form if composed via the versatile system editor.

The system editor supports extended mail facilities in addition to a universal text buffer which is utilized during text uploading, downloading and many extended editing functions for both mail and general text.

You can also keep the system entirely private and to yourself for your own personal access. As the system owner you are free to exit from the program itself while on-line, and access the computer directly or run other programs, all while under direct supervision of a very special supervisory input/output routine, which along with providing crashproof character input and output, also protects the system against loss of carrier. If loss of carrier occurs, the system will completely re-boot and return to an on-line state waiting for the next caller.

ONLINE's many uses include:

- User groups can post announcements and news for members, have programs available for download, or receive program or data files from other members.
- Your business can have an Apple II computer answering sales personnel's inquiries from the field at any hour of the day or night.
- Field representatives may leave important ordering information to be acted upon immediately the next morning.

- Use as an advertiser for your company's products or services, take orders, handle requests for further information of products.

- Call your computer at home from work or while on vacation, to dispatch messages to friends, or just see what's happening "at home" while you're away.

Customizing the system for your own particular use, for your club or business is a very straightforward and relatively easy task. Elaborate help files are included for every step of the way during normal system operation, and helpfiles can easily be changed or added to suit your particular requirements. If using ONLINE for a club or business function, you can easily add "news" or "announcements" to suit a particular occasion. Each new file you add may be individually assigned to different priority levels.

SYSTEM REQUIREMENTS: 48K Apple II Plus equipped with DOS 3.3, Hayes Micromodem, one Apple II disk drive, Lazer Systems or Dan Paymar (or equivalent) lower case display board. Optional: Mountain Hardware or California Computer Systems clock cards, printer, additional drives.

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*Apple II is a registered trademark of Apple Computer Co.
*Hayes Micromodem is a registered trademark of Hayes Microcomputer Products, Inc.

OTHER PRODUCTS AND SERVICES

INNOVATION — THAT'S OUR BUSINESS!!

EXECUTIVE LIBRARY CASES

These high quality diskette cases are a must for the serious diskette user. They combine the utility of the best of all the common methods for diskette storage with an unparalleled look of distinctive beauty. A superior grade vinyl covering with brass plate clasp provides maximum protection and assures diskettes can't fall out, making it ideal for situations where they're transported from place to place. And even if you don't move your diskettes about, you'll find the compact size of the case when stored, and its smart shelf appearance make it a valuable accessory to your computer.

When is use, special Velcro sealed flaps open out for stand-up use on desk or table top. Every diskette can be easily seen, thus making each one instantly accessable without having to thumb through the usual box or notebook. Diskettes go in and out effortlessly — no more diskettes scattered about the work area to be damaged or misplaced.

We think you'll find these unique cases to be the finest storage method available, and definitely the easiest to use. Each carries the unconditional S.D.S. guarantee of satisfaction, and is available from computer stores throughout the world that carry the S.D.S. product line.

Available in sizes to fit both 5¼" and 8" diskettes. Each case holds 20 diskettes.

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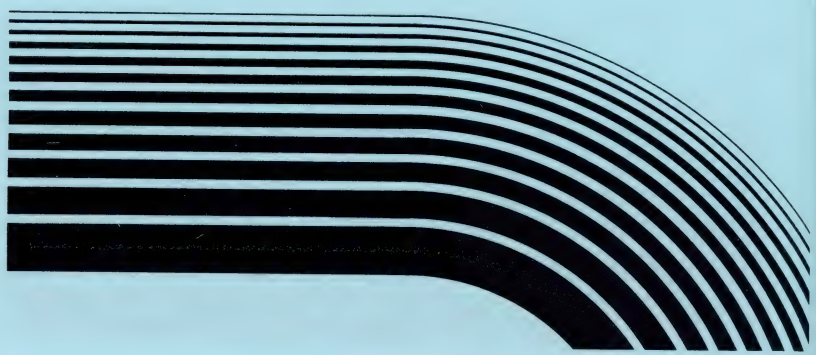
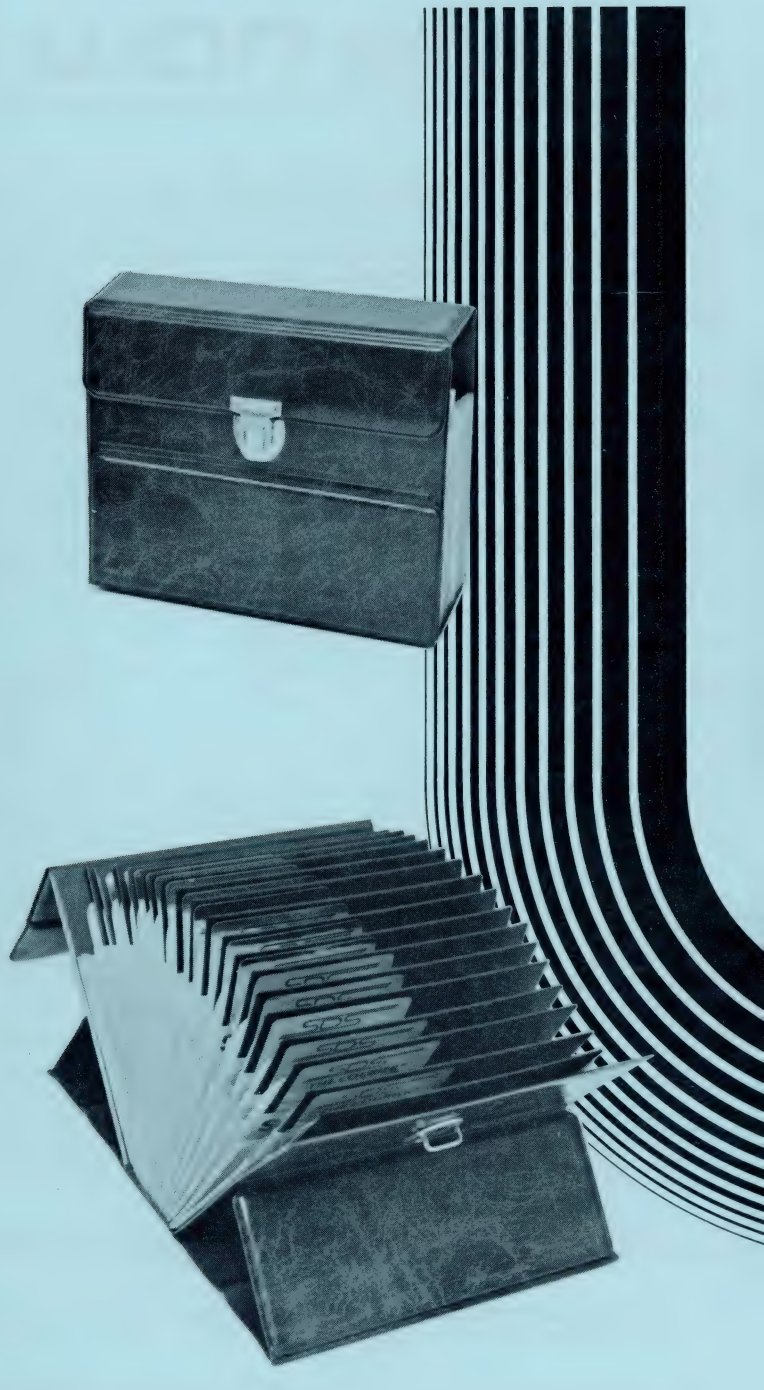
We also carry vinyl diskette holders for use in 3-ring notebooks. These are packages with 10 pages per set, with labels included. Each page holds two 5¼" diskettes.





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A) Send a copy of your program via registered mail marked "Attention Software Evaluation". We will acknowledge receipt within 48 hours.

B) The program should be submitted on diskette and all necessary documentation must be included in the package.

C) For your protection and ours, your program should be copyrighted near the beginning. For example, "Copyright by (your name and address). Do not copy under penalty of law." Your program will be treated with strict confidence and no copies of your work will be made.

D) Our Evaluation Team will thoroughly review your program and documentation within six weeks.

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